

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4770003APPLICATION NO.
09/227,742APPLICANT
Bloom *et al.*FILING DATE
January 8, 1999GROUP
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>JS</i>	AA1	3,843,453	10/22/1974	Freake, R.	495 435	403.5 39	03/02/1973
	AB1	4,038,143	07/26/1977	Juni, E.	495 435	100 37	08/15/1975
	AC1	4,446,230	05/01/1984	Zubrzycki, L.J.	435	6	10/30/1981
	AD1	4,520,019	05/28/1985	Ribi, E.E., <i>et al.</i>	424	195.1	03/19/1984
	AE1	4,681,852	07/21/1987	Tribe, D.E.	435	108	01/18/1983
	AF1	4,808,404	02/28/1989	Bhogal, B.S.	424	88	01/11/1988
	AG1	4,824,938	04/25/1989	Koyama, S., <i>et al.</i>	530	351	08/31/1987
	AH1	4,851,348	07/25/1989	Hanahan, D.	435	252.33	07/16/1986
	AI1	4,891,319	01/02/1990	Roser, B.J.	435	188	07/09/1986
	AJ1	4,950,609	08/21/1990	Tischer, W., <i>et al.</i>	435	18	03/27/1986
<i>JS</i>	AK1	4,981,797	01/01/1991	Jessee, J.A., <i>et al.</i>	435	172.3 252.3	11/14/1988

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>JS</i>	AL1	AU-A-27434/88	06/29/1989	Australia	—	—	Yes No
	AM1	EP 0 383 569 A2	08/22/1990	Europe	—	—	Yes No
	AN1	EP 0 508 496 A1	10/14/1992	Europe	—	—	Yes No
	AO1	WO 97/28248	08/07/1997	WIPO PCR	—	—	Yes No
<i>JS</i>	AP1	WO 97/36613	10/09/1997	WIPO PCR	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>JS</i>	AR	1	Adamczky, Jr., J.J., "Treatment of PCR Products with Shrimp Alkaline Phosphatase and Exonuclease I," <i>Editorial Comments</i> 36,49 (1995)
	AS	1	Alexander, D.C., <i>et al.</i> , "A simplified and efficient vector-primer cDNA cloning system," <i>gene</i> 31:79-89 (1984)
<i>JS</i>	AT	1	Anderson, D.M.W., and Dea, I.C.M., "Recent advances in the chemistry of <i>Acacia</i> gums," <i>J. Soc. Cosmet. Chem.</i> 22:61-76 (1971)

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*James Neal*DATE CONSIDERED
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sy	AA2	5,045,446	09/03/1991	Goodrich Jr., R.P., <i>et al.</i>	435	2	07/11/1989
	AB2	5,059,518	10/22/1991	Kortright, K.H., <i>et al.</i>	435	6	10/20/1988
	AC2	5,098,893	03/24/1992	Franks, F., <i>et al.</i>	514	54	02/12/1990
	AD2	5,149,656	09/22/1992	Bitton, G., <i>et al.</i>	435	288	05/03/1990
	AE2	5,292,507	03/08/1994	Charley, R.	424	93	09/14/1992
	AF2	5,425,951	06/20/1995	Goodrich, Jr., R.P., <i>et al.</i>	424	520	05/31/1991
sy	AG2	5,891,692	04/06/1999	Bloom, F.R., <i>et al.</i>	435	441	03/27/1997

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							Yes No
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							Yes No
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sy	AR	2	ATCC, <i>Bacteria and Bacteria and Bacteriophages</i> , 19 th Edition. Pages 152-153, 161, 188, 277, and 320 (1996)
	AS	2	Bullock, W.O., <i>et al.</i> , "XL1-Blue: A High Efficiency Plasmid Transforming <i>recA</i> <i>Escherichia coli</i> Strain With Beta-Galactosidase Selection," <i>BioTechniques</i> 5:376-378 (1987)
sy	AT	2	Chung, C.T., <i>et al.</i> , "One-step preparation of competent <i>Escherichia coli</i> : Transformation and storage of bacterial cells in the same solution," <i>Proc. Natl. Acad. Sci. USA</i> 86:2172-2175 (1989)

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Pearlman

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AR	3	Cohen, S.N., <i>et al.</i> , "Nonchromosomal Antibiotic Resistance in Bacteria: Genetic Transformation of <i>Escherichia coli</i> by R-Factor DNA," <i>Proc. Natl. Acad. Sci. USA</i> 69:2110-2114 (1972)
AS	3	Cosloy, S.D., and Oishi, M., "Genetic Transformation in <i>Escherichia coli</i> K12," <i>Proc. Natl. Acad. Sci. USA</i> 70:84-87 (1973)
AT	3	Cronan, Jr., J.E., "Thermal Regulation of the Membrane Lipid Composition of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 250:7074-7077 (1975)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<div style="position: relative; height: 100px;"> <div style="position: absolute; left: 10px; top: 50px; font-size: 2em;"> sup ↓ sub </div> </div>	AR	4	Crowe, J.H., <i>et al.</i> , "Stabilization of dry phospholipid bilayers and proteins by sugars," <i>Biochem. J.</i> 242:1-10 (1987)
	AS	4	Dagert, M., and Ehrlich, S.D., "Prolonged Incubation in Calcium Chloride Improves the Competence of <i>Escherichia coli</i> Cells," <i>Gene</i> 6:23-28 (1979)
	AT	4	Danilevskaya, O.N., and Gragerov, A.I., "Curing of <i>Escherichia coli</i> K12 Plasmids by Coumermycin," <i>Mol. and Gen. Genet.</i> 178:233-235 (1980)

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Sean Jones

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AR	<u>5</u>	de Mendoza, D., <i>et al.</i> , "Overproduction of <i>cis</i> -Vaccenic Acid and Altered Temperature Control of Fatty Acid Synthesis in a Mutant of <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 151:1608-1611 (1982)	
AS	<u>5</u>	de Mendoza, D., <i>et al.</i> , "Thermal Regulation of Membrane Fluidity in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 258:2098-2101 (1983)	
AT	<u>5</u>	de Mendoza, D., and Cronan Jr., J.E., "Thermal regulation of membrane lipid fluidity in bacteria," <i>Trends Biochem. Sci.</i> 8:49-52 (1983)	

EXAMINER *Jane Ford*

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AR	<u>6</u>	Dente, L., <i>et al.</i> , "pEMBL: a new family of single stranded plasmids," <i>Nucleic Acids Research</i> 11:1645-1655 (1983)
AS	<u>6</u>	Dityatkin, S.Ya., and Il'yashenko, B.N., "Acceptor properties of freeze-thawed bacteria in relation to isolated plasmid DNA," <i>Chem. Abs.</i> 84:295, Abstract No. 176192r (1978)
AT	<u>6</u>	Dityatkin, S.Ya., and Il'yashenko, B.N., "Frozen and thawed bacteria as recipients of isolated phage and plasmid DNA," <i>Chem. Abs.</i> 74:322, Abstract No. 183010d (1979)

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						Yes No
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						Yes No
						Yes No
						Yes No

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AR	Z	Dower, W.J., <i>et al.</i> , "High efficiency transformation of <i>E. coli</i> by high voltage electroporation," <i>Nuc. Acids Res.</i> 16:6127-6145 (1988)
AS	Z	Dutyatkin, S.Ya., and Il'yashenko, B.N., "Chromosomal transformation of frozen-thawed bacteria," <i>Chem. Abs.</i> 90:286-287, Abstract No. 148301c (1979)
AT	Z	Ghera, R.L., "Preservation," in <i>Manual of Methods for General Bacteriology</i> , Gerhardt, P., ed., American Society for Microbiology, Washington, D.C., pp. 208-217 (1981)

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<div style="text-align: center;">  </div>	AR	<u>8</u>	Grant & Hackh's Chemical Dictionary. Grant, R.L., ed., McGraw-Hill, Inc., pp. 246, 346 (1987)
	AS	<u>8</u>	Gombos, Z., et al., "Unsaturation of fatty acids in membrane lipids enhances tolerance of the cyanobacterium <i>Synechocystis</i> PCC6803 to low-temperature photoinhibition," <i>Proc. Natl. Acad. Sci. USA</i> 89:9959-9963 (1992)
<div style="text-align: center;">  </div>	AT	<u>8</u>	Green, J.L., and Angell, C.A., "Phase Relations and Vitrification in Saccharide-Water Solutions and the Trehalose Anomaly," <i>J. Phys. Chem.</i> 93:2880-2882 (1989)

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	AR	2	Hanahan, D., "Studies on Transformation of <i>Escherichia coli</i> with Plasmids," <i>J. Mol. Biol.</i> 166:557-580 (1983)
	AS	2	Hanahan, D., "Techniques for Transformation of <i>E. coli</i> ," in <i>DNA Cloning. Volume 1: A practical approach</i> . Glover, D.M., ed., IRL Press Limited, Oxford, England, pp. 109-135 (1985)
	AT	2	Hanahan, D., et al., "Plasmid Transformation of <i>Escherichia coli</i> and Other Bacteria," in <i>Methods in Enzymology 204: Bacterial Genetic Systems</i> , Miller, J.H., ed., Academic Press, Inc., New York, NY, pp. 63-113 (1991)

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ser	AR	<u>11</u>	Heckly, R.J., and Quay, J., "A Brief Review of Lyophilization Damage and Repair in Bacterial Preparations," <i>Cryobiology</i> 18:592-597 (1981)
	AS	<u>11</u>	Inoue, H., <i>et al.</i> , "High efficiency transformation of <i>Escherichia coli</i> with plasmids," <i>Gene</i> 96:23-28 (1990)
ser	AT	<u>11</u>	Konev, S. V., <i>et al.</i> , "Membrane-structural mechanism of the development of competence in <i>Escherichia coli</i> cells to calcium-dependent transfection by bacteriophage λ DNA," <i>Chem. Abs.</i> 89:295, Abstract No. 176191q (1978)

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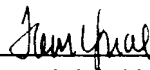
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						Yes No
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						Yes No
						Yes No
						Yes No

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	AR	<u>14</u>	Mandel, M., and Higa, A., "Calcium-dependent Bacteriophage DNA Infection," <i>J. Mol. Biol.</i> 53:159-162 (1970)
	AS	<u>14</u>	Merck Index: An Encyclopedia of Chemicals, Drugs, and Biologicals. 11th edition, Budavari, S., et al., eds., Merck & Co., Inc., Rahway, NJ, p. 3 (1989)
	AT	<u>14</u>	Meselson, M., and Yuan, R., "DNA Restriction Enzyme from <i>E. coli</i> ," <i>Nature</i> 217:1110-1114 (1968)

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AR	15	Messing, J., "M13mp2 and Derivatives: A Molecular Cloning System for DNA Sequencing, Strand-Specific Hybridization, and <u>in vitro</u> Mutagenesis," in <i>Recombinant DNA. Proceedings of the Third Cleveland Symposium on Macromolecules</i> . Cleveland, Ohio. 22 - 26 June 1981, Walton, A.G., ed., Elsevier Scientific Publishing Co., New York, NY, pp. 143-153 (1981)
AS	15	Morrison, D.A., "Transformation and Preservation of Competent Bacterial Cells by Freezing," in <i>Methods Enzymol.</i> 68, Wu, R., ed., Academic Press, New York, NY, pp. 326-331 (1979)
AT	15	Murray, V., et al., "Improved Double-Stranded DNA Sequencing Using the Linear Polymerase Chain Reaction," <i>Nucleic Acids Res.</i> 17:8889 (1989)

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	AS	<u>16</u>	Newman, T., et al., "Cloning and Expression of the <i>ilvB</i> Gene of <i>Escherichia coli</i> K-12," <i>Mol. Gen. Genet.</i> 186:378-384 (1982)
	AT	<u>16</u>	Norgard, M.V., et al., "Factors Affecting the Transformation of <i>Escherichia coli</i> Strain x1776 by pBR322 Plasmid DNA," <i>Gene</i> 3:279-292 (1978)

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AR	17	Old, R.W., and Primrose, S. B., "Basic Techniques," in <i>Principles of Gene Manipulation. An Introduction to Genetic Engineering</i> , Fifth Edition, Carr, N.G., ed., Blackwell Scientific Publications, Oxford, England, pp. 6-21 (1994)
AS	17	Polisky, B., et al., "Specificity of substrate recognition by the <i>EcoRI</i> restriction endonuclease," <i>Proc. Natl. Acad. Sci. USA</i> 72:3310-3314 (1975)
AT	17	Pope, B., and Kent, H. M., "High efficiency 5 min transformation of <i>Escherichia coli</i> ," <i>Nucl. Acids Res.</i> 24:536-537 (1996)

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AR	18	Potter, H., "Electroporation in Biology: Methods, Applications, and Instrumentation," <i>Anal. Biochem.</i> 174:361-373 (1988)
AS	18	Reusch, R.N., <i>et al.</i> , "Poly-β-Hydroxybutyrate Membrane Structure and Its Relationship to Genetic Transformability in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 168:553-562 (1986)
AT	18	Sambrook, J., <i>et al.</i> , "Plasmid Vectors: Preparation and Transformation of Competent <i>E. coli</i> ," in <i>Molecular Cloning: A Laboratory Manual</i> , 2nd Ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, NY, pp. 1.74-1.84 (1989)

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AR	19	Simione, Jr., F.P., "Key Issues Relating to the Genetic Stability and Preservation of Cells and Cell Banks," <i>J. Parenteral Sci. & Technol.</i> 46:226-232 (1992)	
AS	19	Suzuki, M., and Szalay, A.A., "Bacterial Transformation Using Temperature-Sensitive Mutants Deficient in Peptidoglycan Synthesis," in <i>Methods in Enzymology</i> 68, Wu, R., ed., Academic Press, New York, NY, pp. 331-342 (1979)	
AT	19	Taketo, A., "Sensitivity of <i>Escherichia coli</i> to Viral Nucleic Acid. VIII. Idiosyncrasy of Ca ⁺⁺ -dependent Competence for DNA," <i>J. Bacteriol.</i> 75:895-904 (1974)	

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	AS	<u>21</u>	Tucker, W.T., <i>et al.</i> , "Structural and Functional Analysis of the <i>par</i> Region of the pSC101 Plasmid," <i>Cell</i> 38:191-201 (1984)
	AT	<u>21</u>	Ulrich, A.K., <i>et al.</i> , "Genetic and Biochemical Analyses of <i>Escherichia coli</i> Mutants Altered in the Temperature-Dependent Regulation of Membrane Lipid Composition," <i>J. Bacteriol.</i> 154:221-230 (1983)

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09/227,742

FILING DATE
January 8, 1999

GROUP
1636

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	22	van Die, I.M., <i>et al.</i> , "Transformation in <i>Escherichia coli</i> : Studies on the Role of the Heat Shock in Induction of Competence, <i>J. Gen. Microbio.</i> 129:663-670 (1983)
AS	22	Vieira, J., and Messing, J., "Production of Single-Stranded Plasmid DNA," <i>Meth. Enzym.</i> 153:3-11 (1987)
AT	22	Wada, H., <i>et al.</i> , "Contribution of membrane lipids to the ability of the photosynthetic machinery to tolerate temperature stress," <i>Proc. Natl. Acad. Sci. USA</i> 91:4273-4277 (1994)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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[illegible][illegible]

du	AR	24	Zimmerman, U., and Vienken, J., "Electric Field-Induced Cell-to-Cell Fusion," <i>J. Membrane Biol.</i> 67:165-182 (1982)

General

DATE CONSIDERED

9/17/90

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